

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

Investigation Title: Utilization of Skylab (EREP) System
for Appraising Changes in Continental
Migratory Bird Habitat.

EREP Investigation No. 486

Period Covered: July 1975

NASA Contract No. T-4114B

USDI Contract No. 14-16-0008-802

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

Principal Investigations Management Office:

Lyndon B. Johnson Space Center
Houston, Texas 77058

Technical Monitor Name: Mr. R. E. Joosten

Principal Investigator and sponsoring institution name:

Dr. David S. Gilmer
Northern Prairie Wildlife Research Center
U. S. Fish and Wildlife Service
Jamestown, North Dakota 58401

Type of Report: Monthly Progress

Overall Status:

Previously requested S-192 CCT's containing conical scan data were received during this reporting period. These data were needed in order to avoid certain channel-to-channel misregistration problems and thus facilitate multi-channel processing. Conical scan data were converted to ERIM format and a water recognition map generated for the purpose of verifying the accuracy of geographic locations. In addition, a 1% systematic sample was used to verify that the conical-scan data as received had been processed similarly to our line-straightened data set. This verification was accomplished by comparing absolute values and dynamic ranges of line-straightened and conic-scan data in all SDO's. The results of this comparison are shown in the attached figure. The various data channels were comparable except SDO's 6, 9, and 14. We can give no explanation for these disparities until further analysis is accomplished.

All recognition maps resulting from aircraft data processing and single channel S-192 data processing have been compiled. These maps were produced using an ink jet color printer and will be submitted in the final report.

N75-29503

Unclas
00361

CSCI 06C G3/43

3

HC

\$3.25

(E75-10361) UTILIZATION OF SKYLAB (EREP)
SYSTEM FOR APPRAISING CHANGES IN CONTINENTAL
MIGRATORY BIRD HABITAT Monthly Progress
Report (Northern Prairie Wildlife Research
Center) 3 p HC \$3.25

Recommendations for Action:

None

Expected Accomplishments During the Next Reporting Period:

Single-channel grey maps will be produced and training sets will be located thereon. The signatures obtained from these training sets will be utilized for proportion estimation water recognition.

Significant Results:

None to report.

Summary Outlook:

We hope to present the results of the processing of S-192 conical scan data at the Purdue "Land-Use" meeting scheduled for 9-11 September.

Travel Summary and Outlook:

No travel was undertaken during this reporting period. Travel is not anticipated during the next reporting period.

DATA VALUE RANGE FOR 95% OF OBSERVED VALUES

Based on a 1% Systematic Sample

- Line-straightened Data
(S-192 Output Tape No. 700564)
- Conic-scan Data
(S-192 Output Tape No. 936159)

256

140

130

120

110

100

90

80

70

60

50

40

30

20

10

0

DATA VALUE

3

SDO

22

18

0.41

0.46

-0.51

0.52-0.56

0.51-0.61

0.62-0.67

0.68-0.76

0.78-0.88

0.98-1.03

1.09-1.19

1.20-1.30

1.55-1.75

2.10-2.25

2.10-2.25

2.10-2.25

10.2

10.2

10.2

14

14

14

13

13

13

12

12

12

21

21

21